rastek.id

optimizing your business

www.rastek.id

optimizing your business

Who we are

www.rastek.id

Slide β

rastek.id – Rastek Inovasi Digital, based in Bandung, Indonesia is a company engaged in the field of Information Technology specializing in Computer Vision, AIoT solutions and microservices systems.

We provide services & solutions from upstream to downstream that can help companies & government bodies face the challenges of businesses that are developing so fast & dynamically.

Currently we are supporting several national IT projects and developing our services in Africa.

HERO PRODUCTS

Portfolio Overview

01
Projects

>50
Government
Tendered Projects
Delivered

02
Team

45 Employees

Jakarta
Depok
Bandung

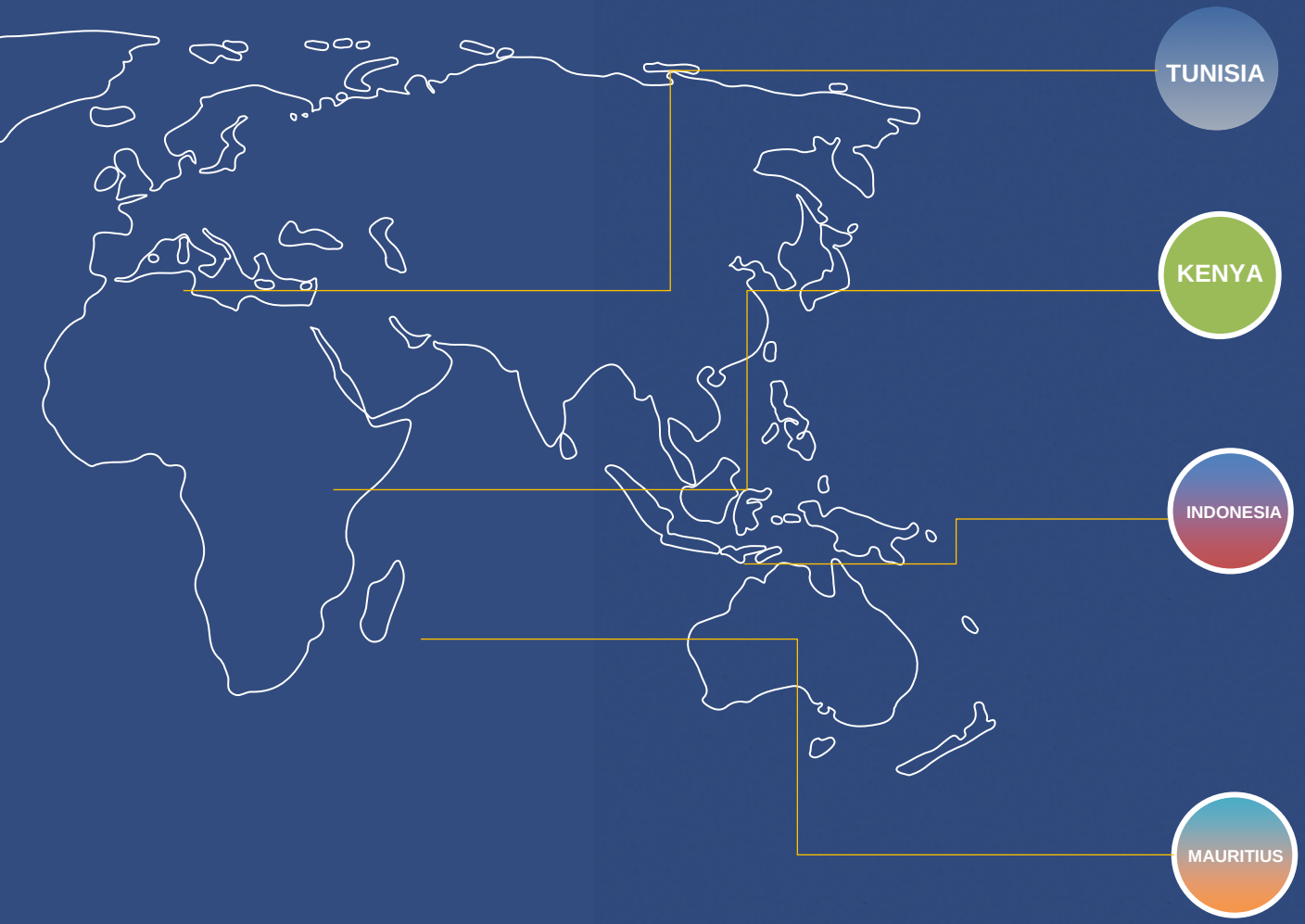
03
Clients

TNI AD – Indonesian Army
TNI AL - Indonesian Navy
SESKO TNI – High Commander Military School
Ministry Of Transportation – Sea Traffic
Ministry Of Transportation – Land Traffic
Telkom Indonesia – Data Center Monitoring
FKS Logistic
NSK Manufacturing
Pondok Indah Mall
Mitratel – BTS Tower
International Airport In Africa
Manufacturing – North Africa

03
Partnership

Telkom University
Bina Nusantara University
BRIN – Indonesia Research Agency
Intel Indonesia
Advantech
IET– Institution Of Engineering & Technology United Kingdom
Cisco CYBEROPS Associate USA
EC-Council Certification UK

Work In Progress



Leoni: Transportation Tracking System
Centralized Warehouse & Cutting (122 cutting machines)
Employee RFID Tracking System (27 thousand employees)

Ministry of Education Smart Canteen Card (2M students)*tender
Ministry of Transportation Airport Tax System *tender

Jababeka Industrial Estate Computer Vison Based Command Center
Vale On Call Application
NSK Visual Inspection
KARA Quality Control & Harvest Monitoring
Mitratel Tower Maintenance Work Force Management (>30k Towers)
Commuter Line Indonesia Machinist Fatigue Detection (200 Trains)
PAMA Energy Monitoring (100 sites)
Telkom High Rise Building Monitoring (400 sites)
Ministry of Development & Planning Paddy Field Analytics (>7,89m ha)

Ministry of Transportation Airport Computer Vision Surveillance* tender

PRODUCTS

Product Family

Panon Computer VIsion

CV Manufacturing Solution
Video Management System
Command Center
Image Compression
Drone

D-twin

Digital Twin
2D, 3D Data Visualization

Workforce Management

Abzen

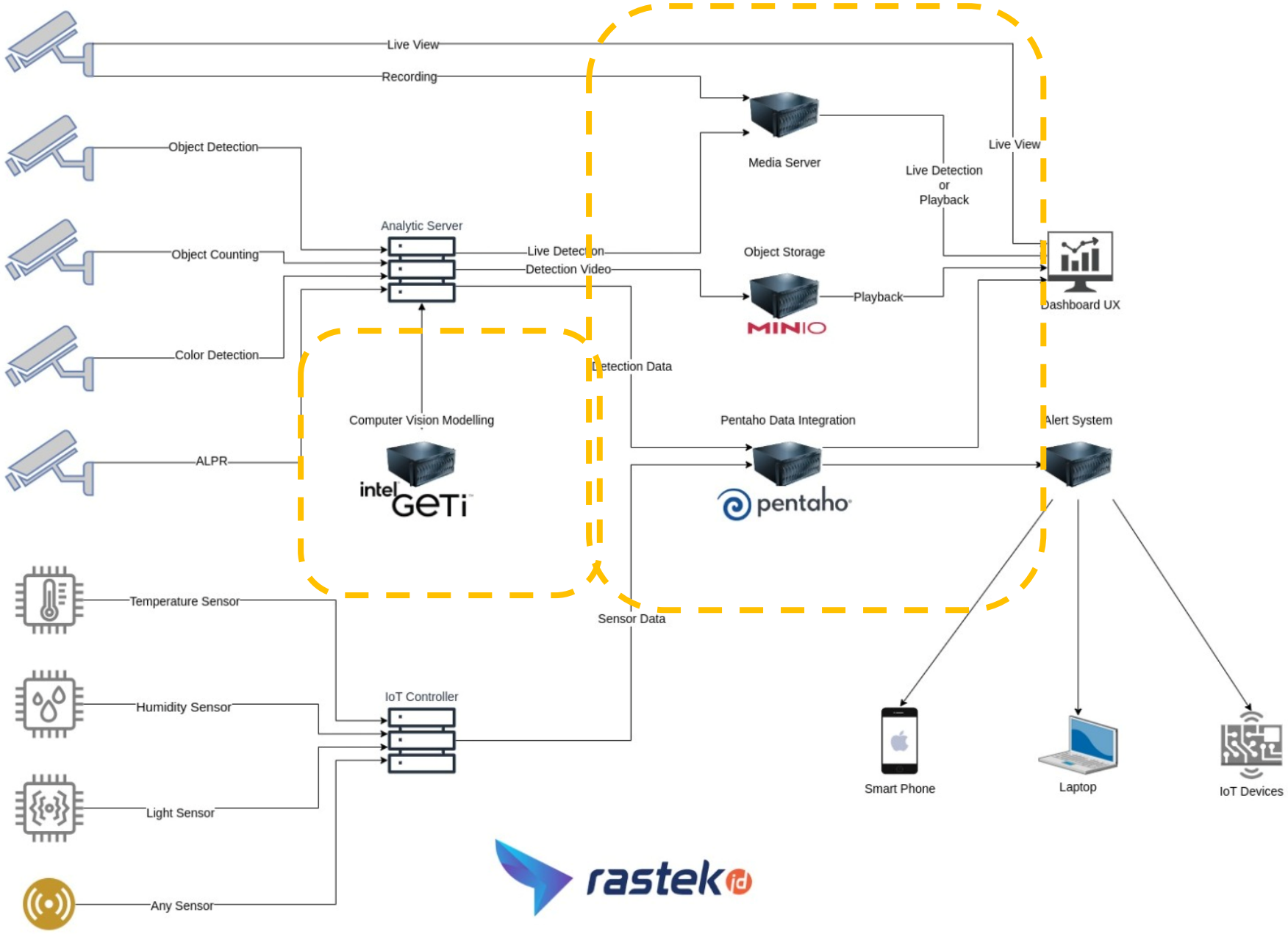
Fiber Optic Management System

AIoT Platform

Smart Street light

Smart Building

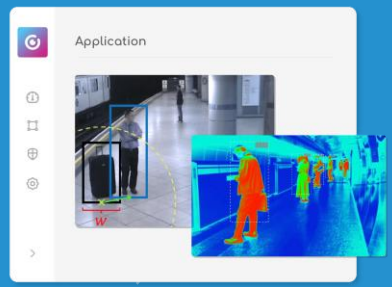
DATA PROCESS



panon™ air - Industrial

AI-Powered Solutions for Industries

Computer vision systems that solve factory automation or inspection problems. By creating a variety of solutions, panon AIR Imaging covers all industrial sectors and their specific needs, enables devices to learn and solve problems in logistics, industrial automation, quality control and inspection.



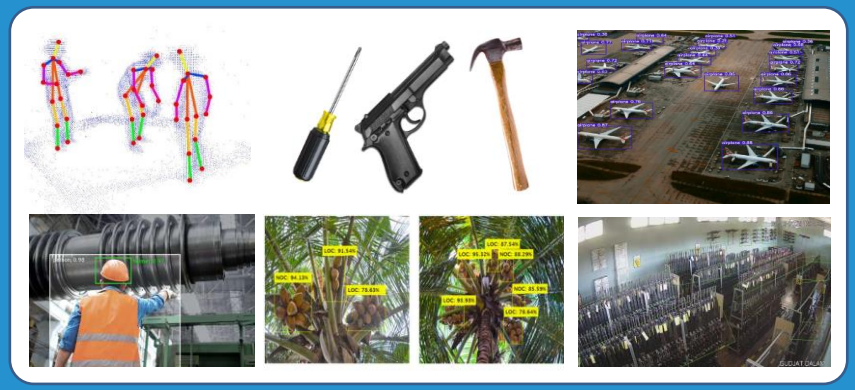
panon™ tera - Security

Surveillance Made Easy

Enhances your safety with technology that's smart, secure and easy to manage. Integrated with powerful Video Management System, floor plan, map and various alert notification that optimize for your surveillance activities such as intrusion detection, safety parameter, face recognition and more in a simple dashboard.

Panon Computer VIsion

PANON ANALYTIC LIBRARY
>150 OBJECTS



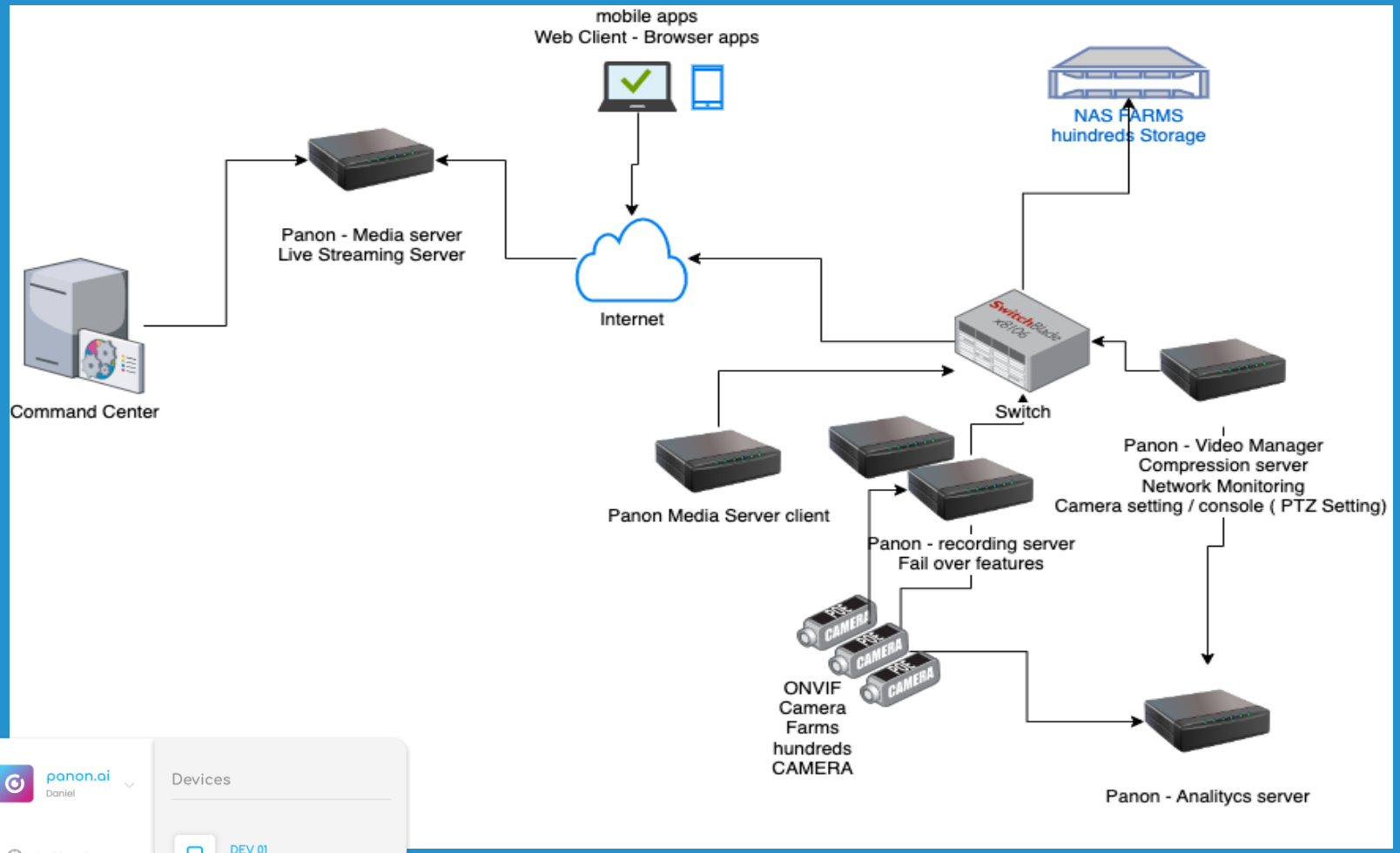
Realtime & Offline Services

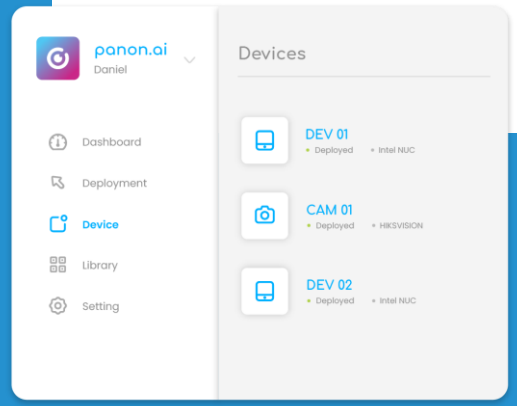
view by panon

Not Just Another Video Management Platform

view is Video Management System from panon. The system is designed to optimize resources use, friendly interface and easy to expand the number of management cameras. The system consists of an administrative server and software to support the system administrator up to 500 camera feeds.

VIDEO MANAGEMENT SYSTEM (VMS)



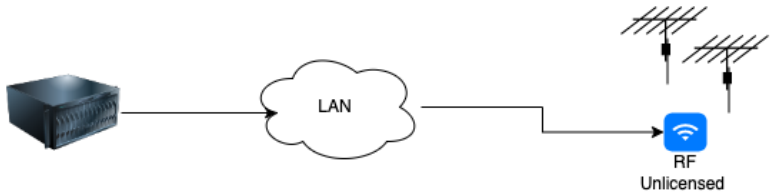


Easily Manage Your Devices

Integrate any type of CCTV brand under one platform. Automatically monitor events from large number of surveillance (CCTV) cameras, alarms, or sensors. Monitors all the systems and provides an at-a-glance view alerting security to any potential risks, threats, events, or scheduled tasks

Drone System

- RF spectrum Unlicensed based (900 MHz for telemetry - control, 2.4 GHz for video streaming
- web based flight management
- BEEHIVE SDK



BEEHIVE Drone

- Drone Type: Multi-copter
- Vehicle Mass: 2.400 gram
- Dimension (LxWxH):65x65x30 cm
- Flight Time: 20 Min
- Camera: RGB 20.1MP, RGN 12MP
- Altitude: 120 m
- Coverage: 25 Ha
- Cruise Speed: 8 m/s
- Take-off Landing type: Vertical
- Material: Carbon

panon™ Drone Vision

Data obtained from surveillance drones could be processed as operational data to create informed business decision

Data obtained from surveillance drones could be processed for inspection, quality control, and other industrial issues

TECHNOLOGY STACK

Edge IPC

- Edge IPC
- Operating System
- Hardware

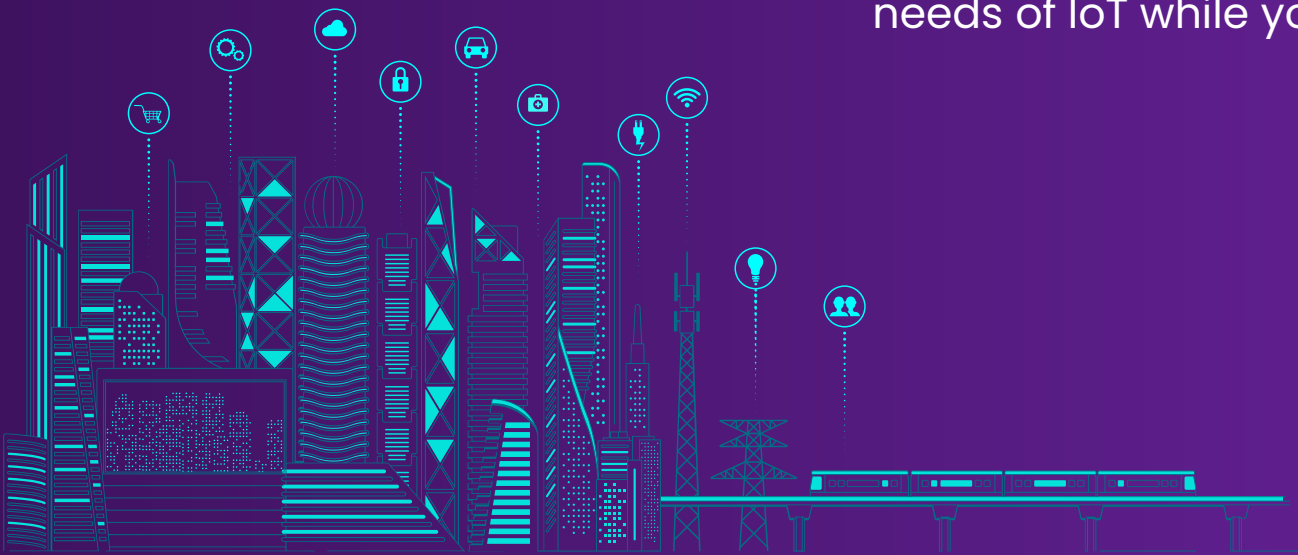
Server

- UI / UX
- AI Platform
- 3rd party Integration
- Database
- Visualization
- Operating System
- Hardware

Our Product

simpul suite by rastek.id

Simpul Suite is an advanced IoT platform designed specifically to handle heavy-duty enterprise-grade IoT solutions. It supports wide-range of industrial sensors, various business purposes, and cloud scalability. Simpul Suite helps you handle the engineering needs of IoT while you focus on your business.



simpul suite by rastek.id

Sub Product

Simpul **Energy & Water Monitoring**

Description: Smart metering system for both residential and commercial properties. Tracks electricity and water consumption in real-time, analyzes usage patterns, and detects leaks.

Benefits: Promotes conservation, reduces utility bills, and enables proactive leak prevention.

Simpul ***Street Light***

Description: Intelligent streetlight control and monitoring network powered by AIoT. Optimizes energy use, detects faults in real-time, and adapts lighting intensity based on schedule and various sensors.

Benefits: Enhances public safety, lowers operational costs, and reduces a city's carbon footprint.

Simpul **Agro**

Description: Precision agriculture solution utilizing sensors, AI, and IoT. Monitors soil conditions, crop health, and weather data to provide actionable insights.

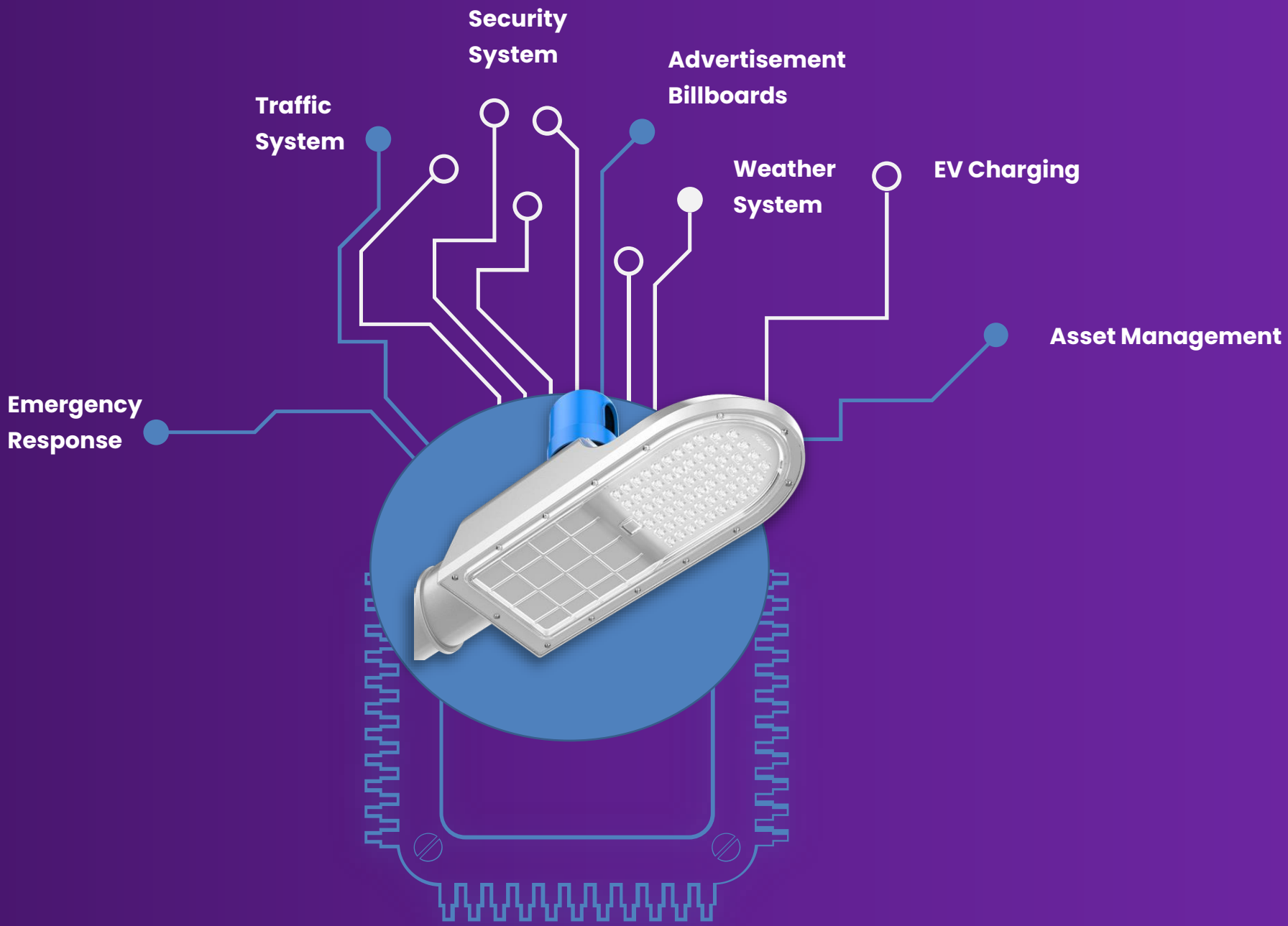
Benefits: Maximizes yield, optimizes resource use (water, fertilizer), and aids in early disease detection.

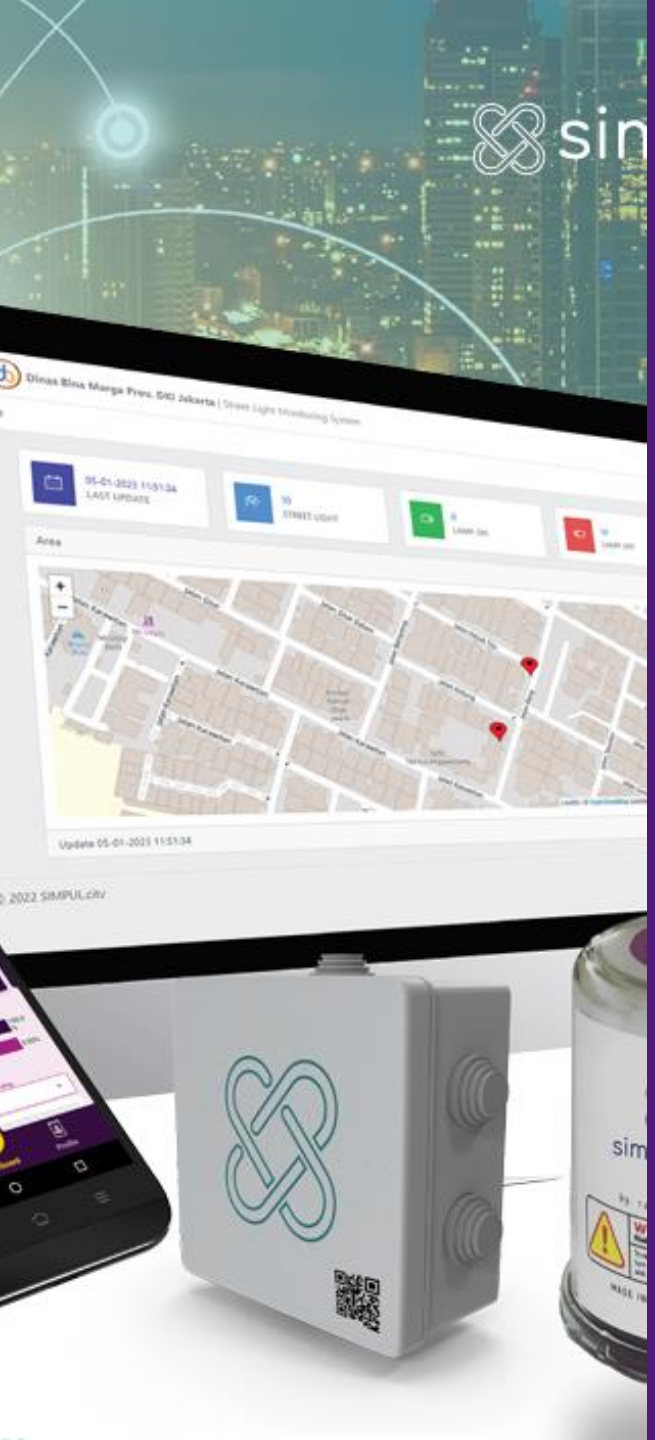
Simpul ***Data Center Monitoring***

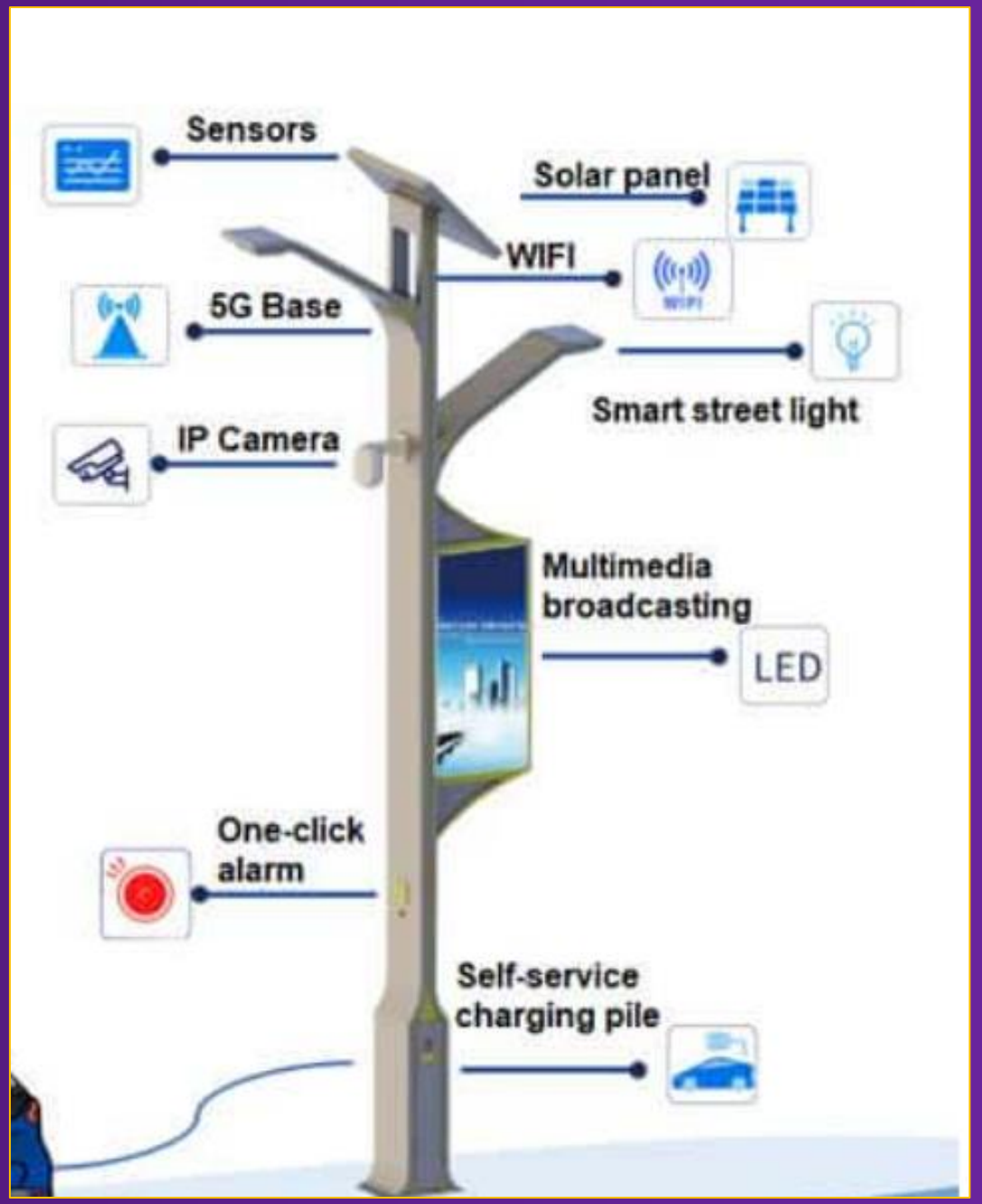
Description: Comprehensive AIoT solution for critical data center environments. Monitors temperature, humidity, power, security, and more. Predicts potential failures and optimizes infrastructure.

Benefits: Ensures uptime, maximizes energy efficiency, and safeguards valuable IT assets..

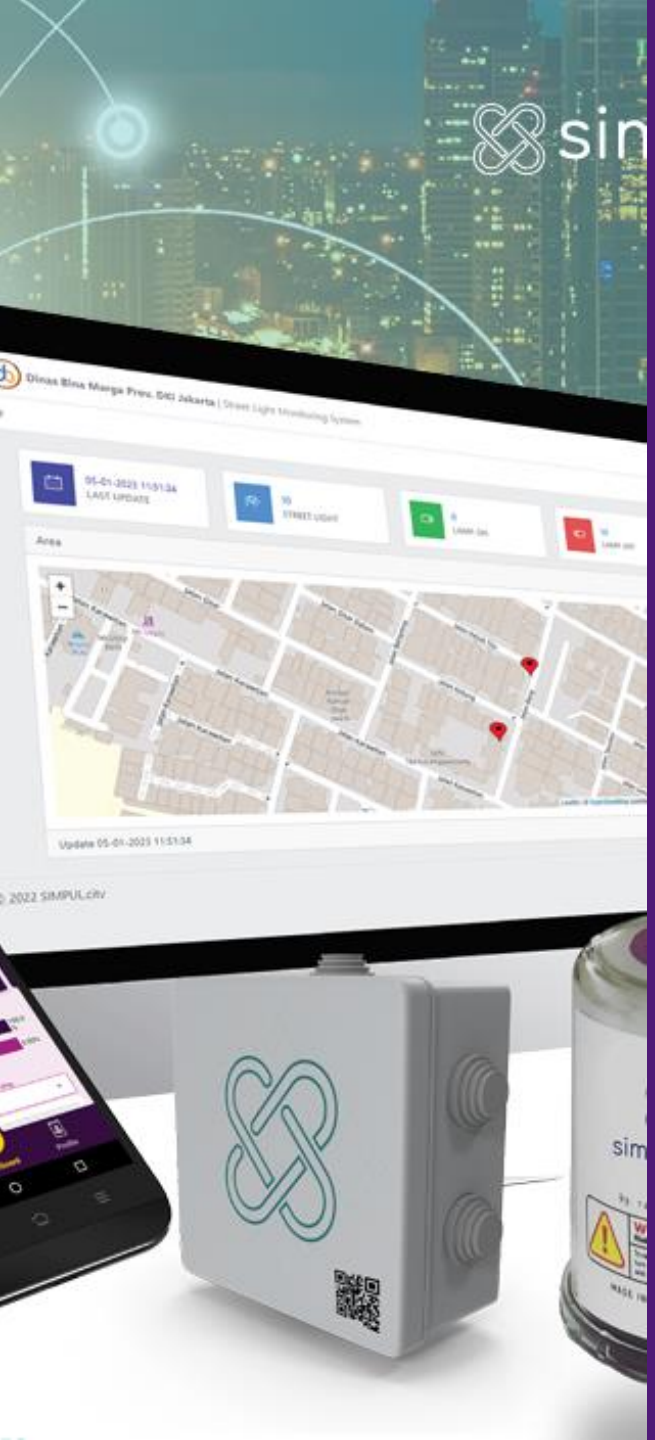
Smart Street Light System



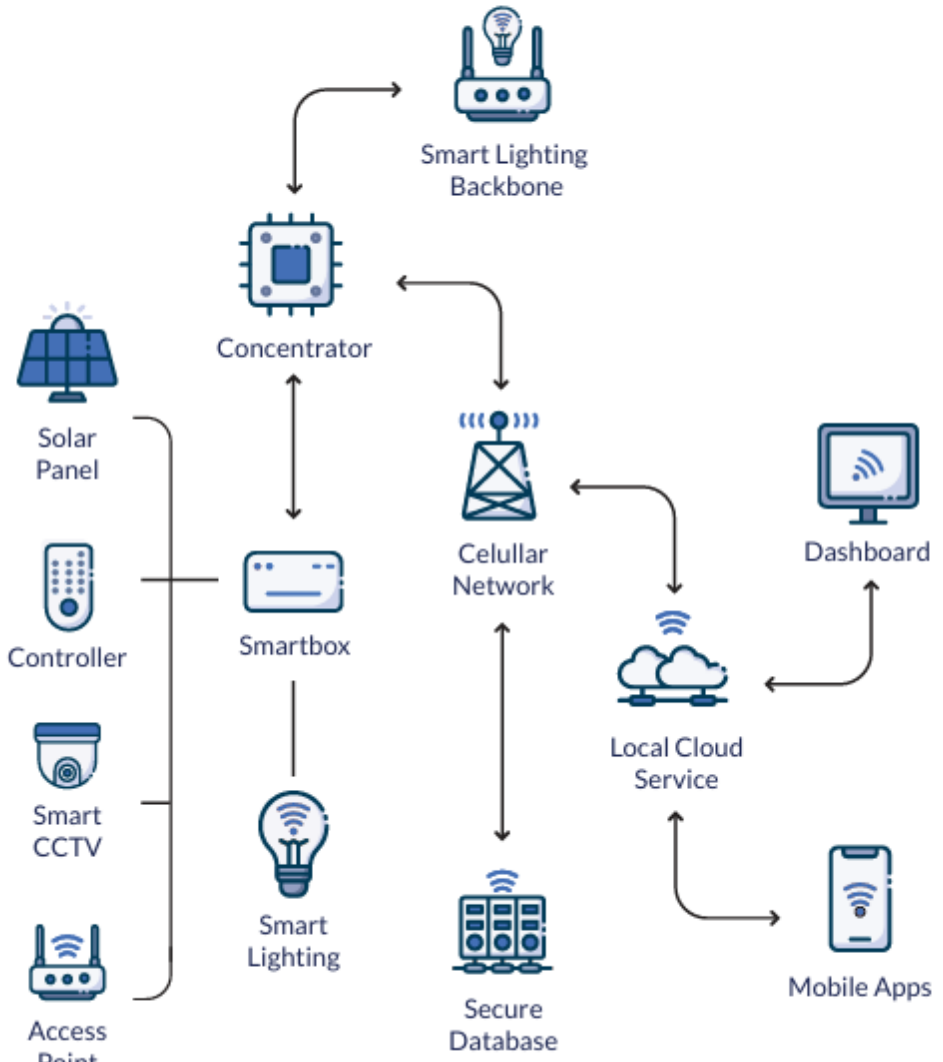




Street Light System



System Architecture



Street Light System

Smart Street Light System

panon™
AIoT Platform

Building Automation Features

Hvac
Heating
Ventilation
Air Conditioning

COST SAVING

Energy Usage Efficiency

Alert System

System will send notification when anomalies found

Realtime Monitoring

Realtime monitoring your utility (gas, water, electricity) level, flow, and pressure or moving In and Out from space to space

Interoperability

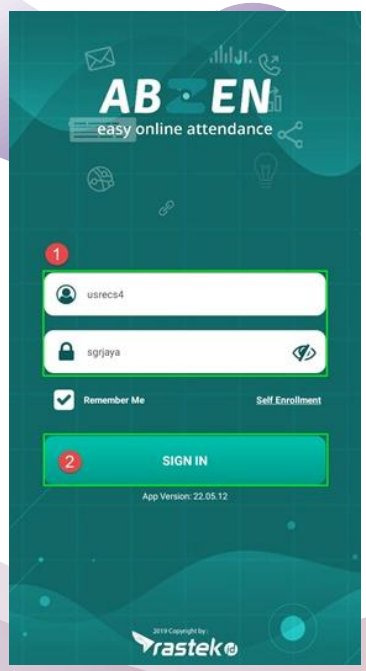
Ease of integration between system using open secure API

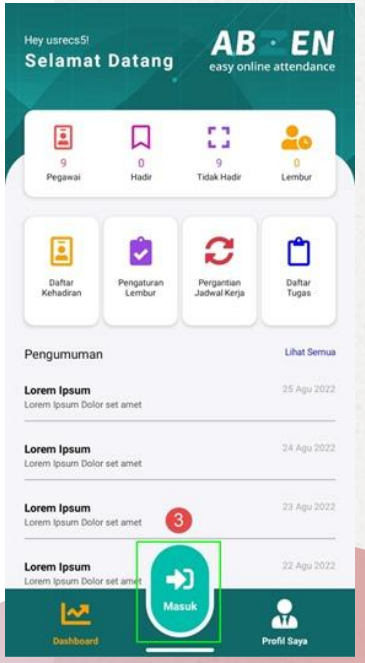
Multi Use Cases

Tracking tag also work for Human Safety Environment operation

panon™

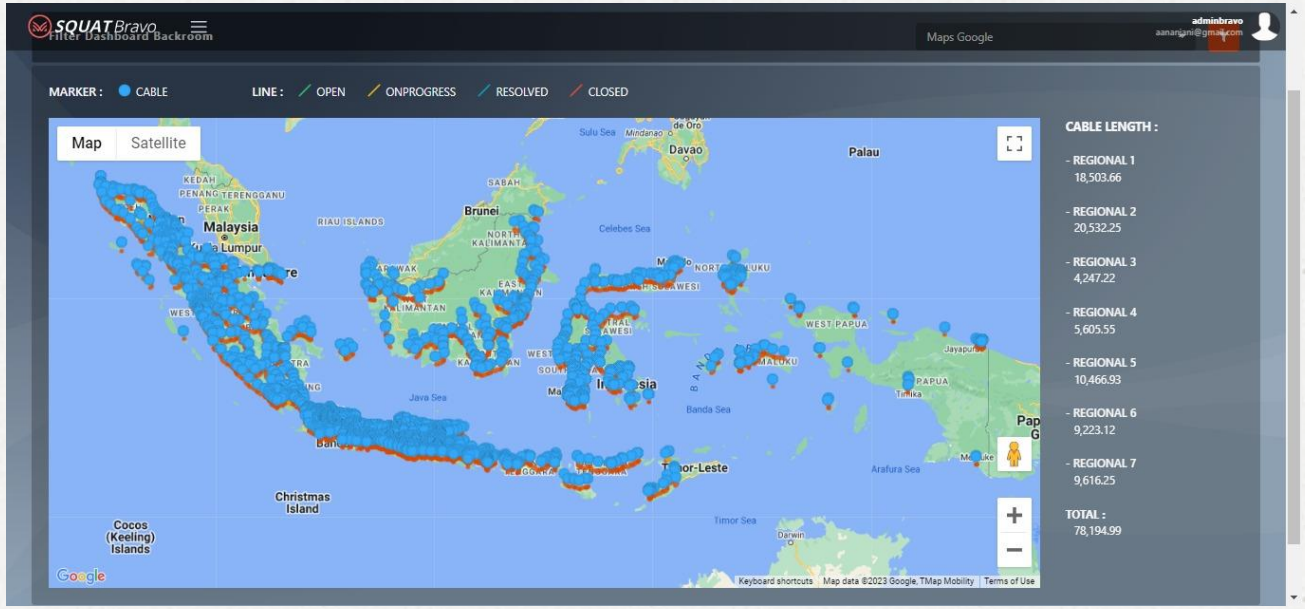
Workforce Management

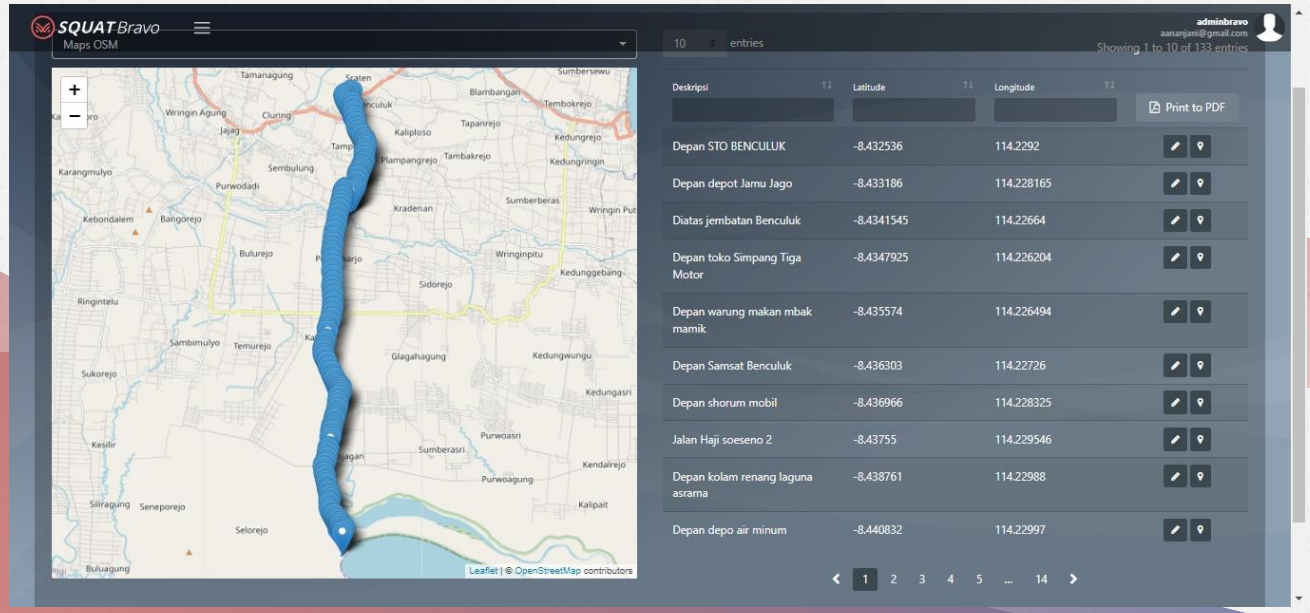




FOMS is the work management system for daily fiber optic maintenance system.

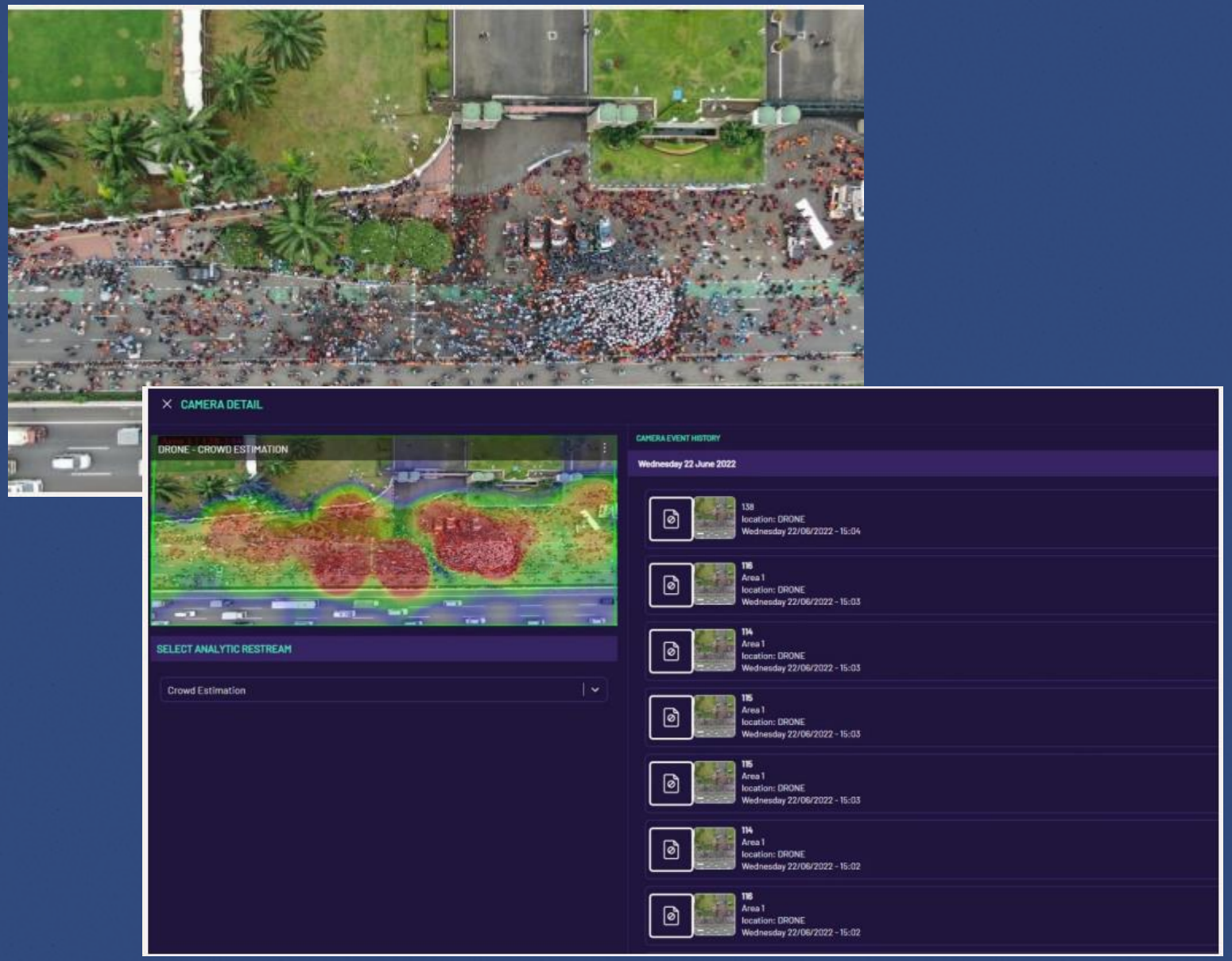
It has been deployed since 2017, managing >3000 engineers throughout Indonesia and thousands of tickets everyday.



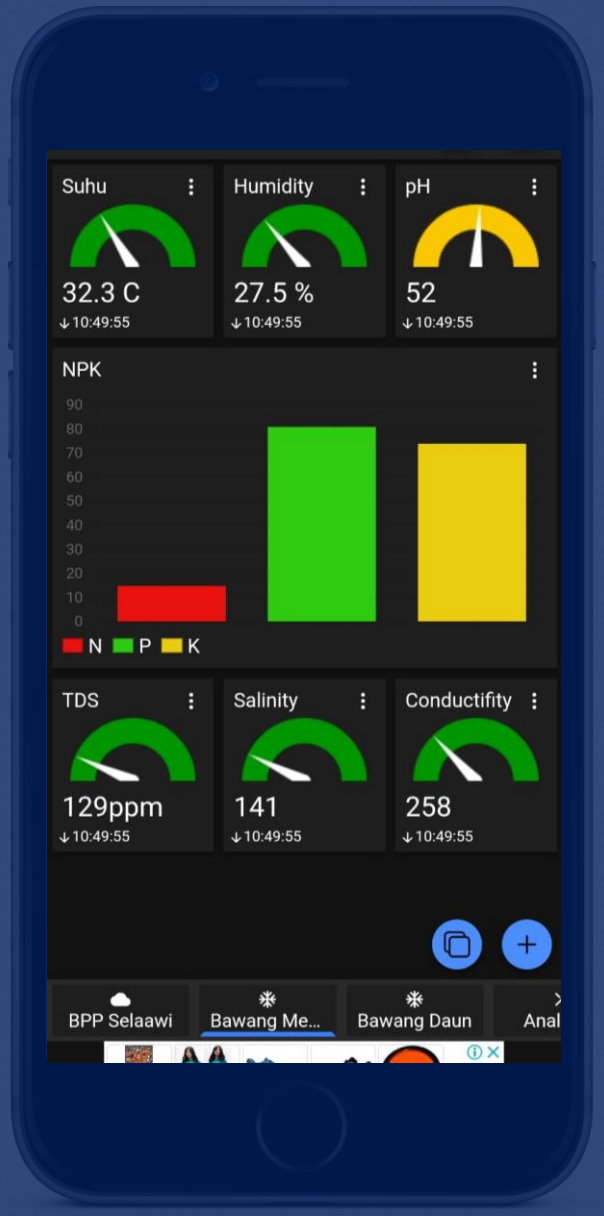


DELIVERIES

CROWD CONTROL



SIMPUL AGRO

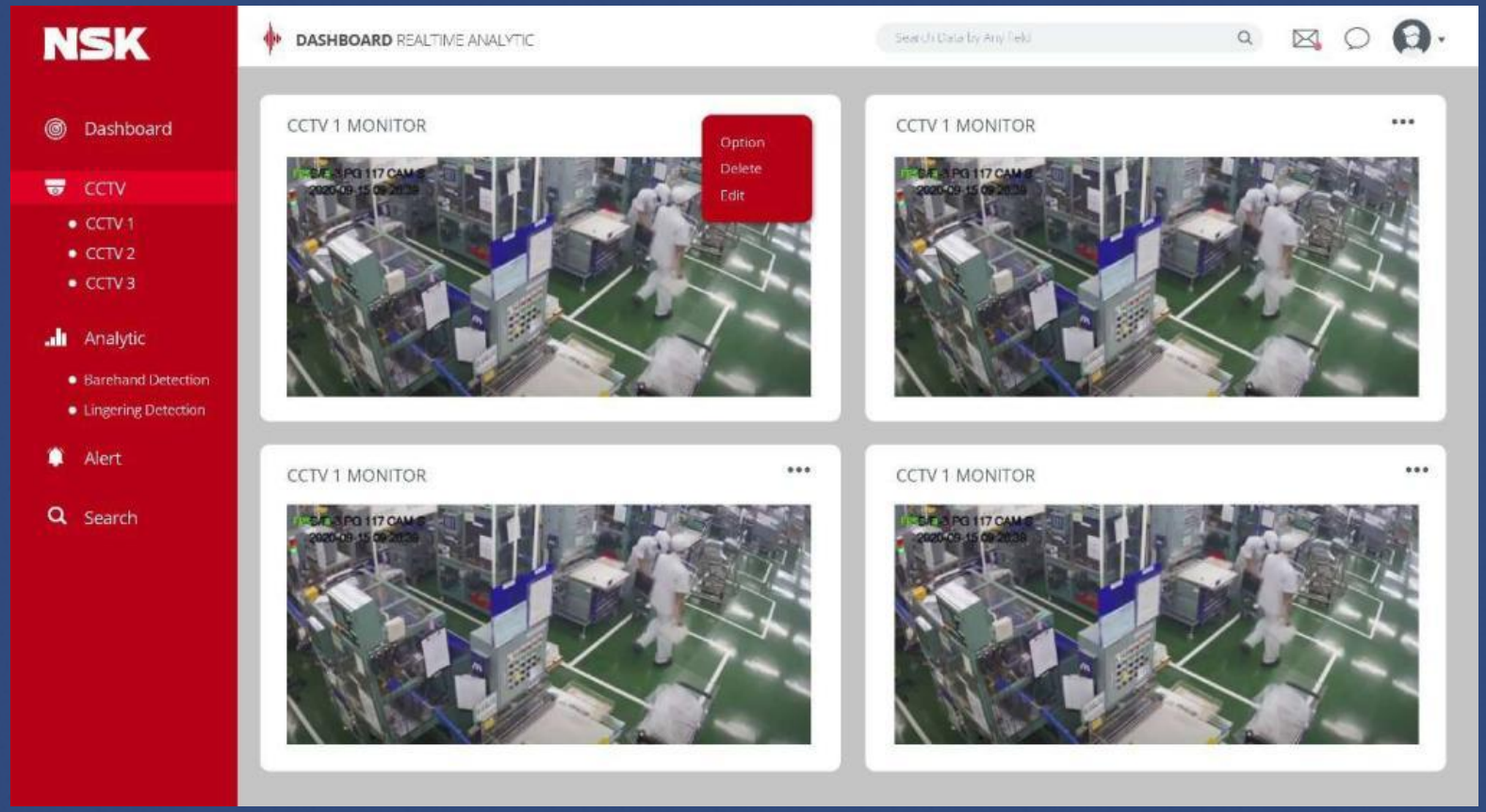


Location: West Java

Sensors:
- Humidity
- Soil
- Wind Speed, etc

Client:
Telkom University + National Research

VISUAL INSPECTION



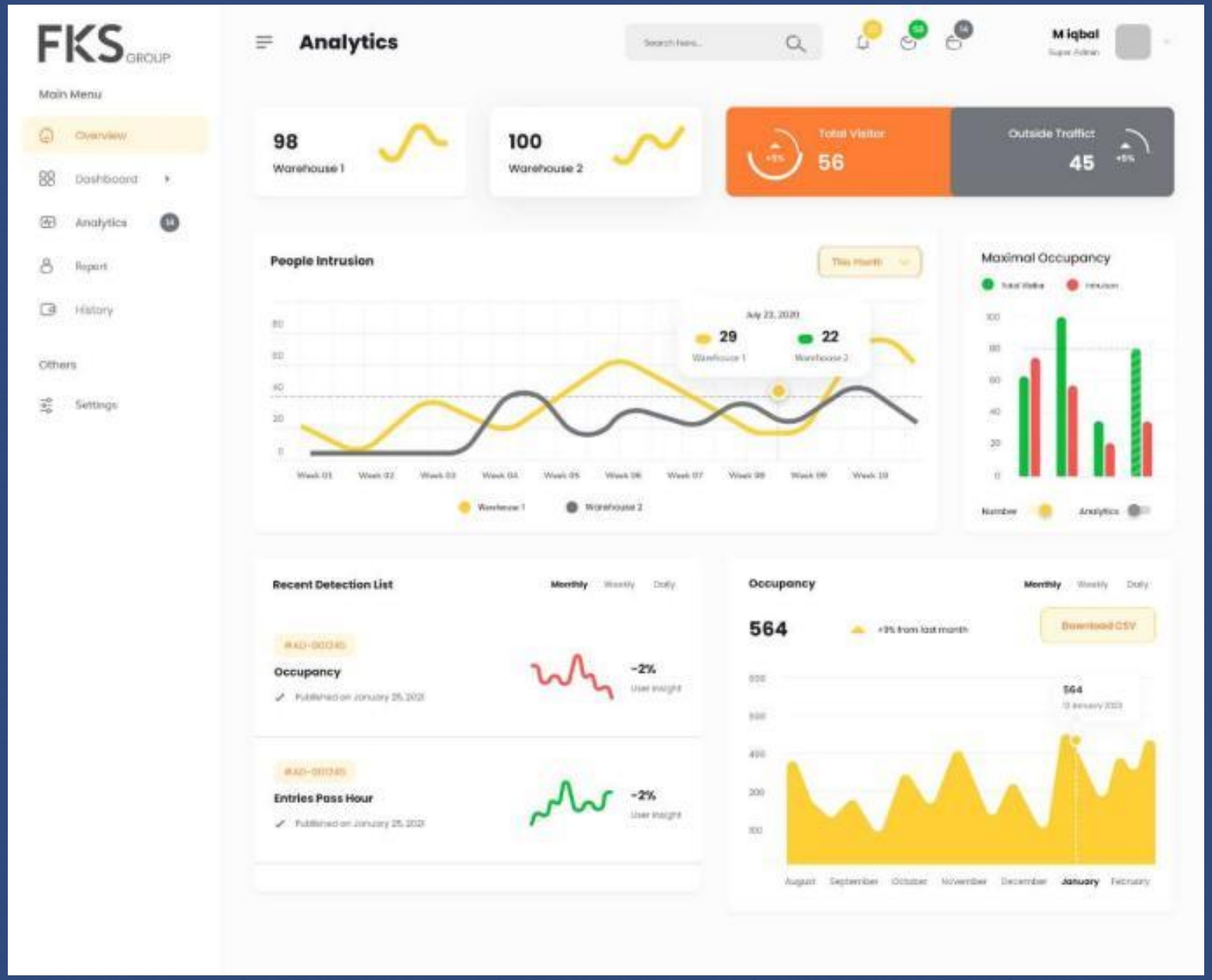
PEOPLE COUNTING

rastekid

COMPUTER VISION COMMAND CENTER

rastekid

PEOPLE INTRUSION



rastek id
Thank you
panon.ai
SIMPUL
abzen
markir
rastek.id
rastek.id
rastek.id
Office : Jl. Reog no. 39, Bandung, Indonesia
www.rastek.id